

What is claimed is:

A) 1. A method for routing calls directed to a subscriber terminal in a telecommunications network, the method comprising:

receiving call data relating to a call to a subscriber at a telephone number associated with the subscriber terminal, the call data comprising the subscriber telephone number;

querying the calling party to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal;

when the calling party selects leaving a voice message, connecting the call through the telecommunications network to a voice mail system of the subscriber;

when the calling party selects paging a subscriber, receiving call back information, disconnecting the call and placing a second call through the telecommunications network to a paging system of the subscriber that initiates a page to the subscriber; and

when the calling party selects connecting the call to the subscriber terminal, querying the calling party to enter a personal identification number;

when the personal identification number is authorized, connecting the call to the subscriber terminal; and

when the personal identification number is not authorized, connecting the call through the telecommunications network to the voice mail system.

2. The method for routing calls directed to a subscriber terminal in a telecommunications network according to claim 1, further comprising:

storing at least one activation time period, comprising a start time and an associated stop time;

determining whether a time of the call is within the at least one activation time period; and

A) when the time of the call is not within the at least one activation time period, connecting the call to the subscriber terminal without querying the calling party to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal.

3. The method for routing calls directed to a subscriber terminal in a telecommunications network according to claim 1, further comprising:

connecting the call to the voice mail system when no response to the querying the calling party to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal is received.

4. The method for routing calls directed to a subscriber terminal in a telecommunications network according to claim 1, further comprising:

connecting the call to the voice mail system when no response to the querying the calling party to enter the personal identification number is received.

5. A method for implementing a service in a telecommunications network to control routing of calls to a voice mail service of a subscriber, bypassing a subscriber terminal, the method comprising:

suspending at a terminating switch in the telecommunications network a call from a calling party terminal to a telephone number of the subscriber terminal;

receiving at a service control point call data relating to the call, the call data comprising the subscriber telephone number and a calling party number;

when the call routing service is not active, connecting the call to the subscriber terminal;

when the call routing service is active, determining whether the calling party number comprises a telephone number of an intelligent peripheral;

when the calling party number comprises the intelligent peripheral telephone number, connecting the call to the subscriber terminal;

when the calling party number does not comprise the intelligent peripheral telephone number, forwarding the call to the intelligent peripheral;

querying the calling party to select one of paging the subscriber and bypassing the voice mail system by entering an identification number;

when no selection is received, routing the call to the voice mail system;

when the paging selection is received, receiving a call back telephone number from the calling party, disconnecting the call, placing a second call to a paging system of the subscriber and interacting with the paging system to page the subscriber; and

when the bypassing the voice mail system selection is received, routing the call to the subscriber terminal when the identification number entered by the calling party matches a previously determined personal identification number of the subscriber, and routing the call to the voice mail system when the identification number entered by the calling party does not match the personal identification number.

6. The method for implementing a service in a telecommunications network to control routing of calls to a voice mail system according to claim 5, further comprising:

routing the call through the telecommunications network to the voice mail system when no identification number is received.

7. The method for routing calls to a subscriber terminal in a telecommunications network according to claim 5, when the identification number entered by the calling party matches the personal identification number, the routing the call to the subscriber terminal comprising:

sending the call to the terminating switch in association with a new call;

receiving at the service control point updated call data associated with the new call, wherein the calling party number of the updated call data comprises the intelligent peripheral telephone number; and

instructing the terminating switch to connect the call to the subscriber terminal based on the calling party number comprising the intelligent peripheral telephone number.

8. A system for routing calls directed to a subscriber terminal in a telecommunications network, the system comprising:

a service control point that receives call data relating to a call to a telephone number associated with the subscriber terminal and implements a call routing service based on information in a call routing service account associated with the subscriber telephone number, the call data comprising at least the subscriber telephone number and a calling party telephone number; and

an intelligent peripheral that receives the call when the service control point implements the call routing service and queries the calling party to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal;

when the calling party selects leaving a voice message, the intelligent peripheral connecting the call through the telecommunications network to a voice mail system of the subscriber;

when the calling party selects paging the subscriber, the intelligent peripheral receiving a call back number from the calling party, disconnecting the call, placing a second call to a paging system of the subscriber, and interacting with the paging system to initiate a page to the subscriber;

when the calling party selects connecting the call to the subscriber terminal, the intelligent peripheral querying the calling party to enter a personal identification number from the calling party and determining authorization of the personal identification number entered by the calling party; and

A1 when the personal identification number is authorized, the intelligent peripheral connecting the call to the subscriber terminal, and when the personal identification number is not authorized, the intelligent peripheral connecting the call to the voice mail system.

9. The system for routing calls directed to a subscriber terminal in a telecommunications network according to claim 8, when the intelligent peripheral connects the call to the subscriber terminal, the service control point receiving updated call data comprising a telephone number of the intelligent peripheral as the calling party telephone number; and

the service control point controlling connecting the call to the subscriber terminal based on the calling party telephone number.

2 10. The system for routing calls directed to a subscriber terminal in a telecommunications network according to claim 8, the service control point storing at least one time period in association with the call routing service account of the subscriber and determining whether a time of the call is within the at least one time period, the at least one time period comprising a start time and an associated stop time; and

when the time of the call is not within the at least one time period, the service control point connecting the call to the subscriber terminal without forwarding the call to the intelligent peripheral.

11. The system for routing calls directed to a subscriber terminal in a telecommunications network according to claim 10, further comprising:

a service management system, connectable to the service control point, that receives instructions from a graphical user interface via a packet switched data network to create and implement the at least one time period, the service management

system transmitting the at least one time period to the service control point for storing and implementation.

12. The system for routing calls directed to a subscriber terminal in a telecommunications network according to claim 8, the intelligent peripheral connecting the call to the voice mail system when the calling party does not respond to the query from the intelligent peripheral to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal.

13. The system for routing calls directed to a subscriber terminal in a telecommunications network according to claim 8, the intelligent peripheral connecting the call to the voice mail system when the calling party does not respond to the query from the intelligent peripheral to enter the personal identification number.

14. The system for routing calls directed to a subscriber terminal in a telecommunications network according to claim 8, the system further comprising:

a service management system, connectable to the intelligent peripheral, that receives instructions from a graphical user interface via a packet switched data network to create and implement the personal identification number, the service management system transmitting the personal identification number to the intelligent peripheral for storing and implementation with respect to authorizing the personal account number.

15. A system for implementing a service in a telecommunications network to control routing of calls to a voice mail system of a subscriber, bypassing a subscriber terminal, the system comprising:

a plurality of switches in the telecommunications network, one of the plurality of switches suspending a call from a calling party terminal to a telephone number associated with the subscriber terminal and, based on the subscriber telephone

number, launching a trigger comprising call data relating to the call, the call data comprising the subscriber telephone number and a calling party number;

A/ a service control point connectable to the one of the plurality of switches, the service control point receiving the trigger and determining whether the call routing service is active based on information previously stored in association with the subscriber telephone number; and

an intelligent peripheral connectable to the one of the plurality of switches, the intelligent peripheral storing in association with the subscriber telephone number a telephone number of the voice mail system, a telephone number of a paging system and a personal identification number;

when the service control point determines one of the call routing service being inactive and the calling party number being a telephone number of the intelligent peripheral, the service control point instructing the one of the plurality of switches to connect the call to the subscriber terminal;

when the service control point determines that the call routing service is active and that the calling party number is not the intelligent peripheral telephone number, the service control point instructing the one of the plurality of switches to connect the call to the intelligent peripheral;

the intelligent peripheral querying the calling party to select one of paging the subscriber and bypassing the voice mail system;

when the bypassing the voice mail system selection is received, the intelligent peripheral querying the calling party to enter an identification number;

when the identification number matches the personal identification number, the intelligent peripheral routing the call to the subscriber telephone number through the one of the plurality of switches, the calling party number being the intelligent peripheral telephone number; and

when the identification number does not match the personal identification number, the intelligent peripheral routing the call to the voice mail telephone number.

16. The system for implementing a service in a telecommunications network to control routing of calls to a voice mail system according to claim 15, when the paging selection is received, the intelligent peripheral receiving a call back number from the calling party, disconnecting the call, and placing a second call to the paging system telephone number.

17. The system for routing calls to a subscriber terminal in a telecommunications network according to claim 16, further comprising:

a service management system connectable to the service control point and the intelligent peripheral, the service management system being accessible by the subscriber through a graphical user interface via a packet switched data network and through an interactive voice response system via the telecommunications network.

18. The system for implementing a service in a telecommunications network to control routing of calls to a voice mail system according to claim 15, the intelligent peripheral routing the call to the voice mail telephone number when no identification number is received.

19. The system for routing calls to a subscriber terminal in a telecommunications network according to claim 17, when the intelligent peripheral places the second call to the paging system telephone number, the intelligent peripheral interacting with the paging system according to information specifically relating to the paging system of the subscriber, provided to the intelligent peripheral via the service management system.

20. The system for routing calls to a subscriber terminal in a telecommunications network according to claim 17, the information previously stored in relation to the subscriber telephone number comprising at least one activation



schedule, the at least one activation schedule comprising a least one time period during which the call routing service is active.

A' 21. The system for routing calls to a subscriber terminal in a telecommunications network according to claim 20, the at least one activation schedule being determined by the subscriber and transmitted from the service management system to the service control point for implementation.

14 22. The system for routing calls to a subscriber terminal in a telecommunications network according to claim 17, the personal identification number being determined by the subscriber and transmitted from the service management system to the intelligent peripheral for implementation.

23. A computer readable medium for storing a computer program that routes calls directed to a subscriber terminal in a telecommunications network, the computer readable medium comprising:

a receiving source code segment that receives call data relating to a call to a subscriber at a telephone number associated with the subscriber terminal, the call data comprising at least the subscriber telephone number; and

a routing source code segment that queries the calling party to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal, and that routes the call according to a response to the querying;

when the calling party selects leaving a voice message, the routing source code segment connecting the call to a voice mail system of the subscriber;

when the calling party selects paging the subscriber, the routing source code segment receiving call back information, disconnecting the call and placing a second call through the telecommunications network to a paging system of the subscriber that initiates a page to the subscriber; and

when the calling party selects connecting the call to the subscriber terminal, the routing source code segment querying the calling party to enter a personal identification number;

when the personal identification number is authorized, the routing source code segment connecting the call to the subscriber terminal; and

when the personal identification number is not authorized, the routing source code segment connecting the call through to the voice mail system.

24. The computer readable medium for storing a computer program that routes calls directed to a subscriber terminal in a telecommunications network, according to claim 23, the computer readable medium further comprising:

an activation source code segment that stores at least one activation time period, comprising a start time and an associated stop time, and that determines whether a time of the call is within the at least one activation time period;

when a time of the call is not within the at least one activation time period, the routing source code segment connecting the call to the subscriber terminal without querying the calling party to select one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal.

25. The computer readable medium for storing a computer program that routes calls directed to a subscriber terminal in a telecommunications network, according to claim 23, the routing source code segment connecting the call to the voice mail system when no response is received from the calling party to the query for selecting one of leaving a voice message, paging the subscriber and connecting the call to the subscriber terminal.

26. The computer readable medium for storing a computer program that routes calls directed to a subscriber terminal in a telecommunications network, according to claim 23, the routing source code segment connecting the call to the voice mail system

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when no response is received from the calling party to the query for entering the personal identification number